W03/68

0053632



Quanterra Incorporated 13715 Rider Trail North Earth City, Missouri 63045

314 298-8566 Telephone 314 298-8757 Fax

CASE NARRATIVE

Bechtel Hanford Incorporated 3350 George Washington Way Richland, Washington 99352

June 22, 2000

Attention: Joan Kessner

Project Number : 36736

SAF : B00-027

SDG : W03168

Number of Samples : five (5)

Sample Matrix : solid

Data Deliverable : Summary

Date SDG Closed : June 6, 2000



EDMC

II. Introduction

On June 6, 2000, five (5) "solid" samples were received by St. Louis for chemical analysis. The samples were received 2 degrees C. See the attached Sample Summary form for the Lab ID's and corresponding Client Ids.

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits.

Analyses requested:

Chromium - Total - 6010

Deviation from Request: None

IV. Definitions

The following codes are used to denote laboratory quality control samples and can be found in the data summary section of this report:

QCBLK- Quality Control Blank, Method Blank

QCLCS- Quality Control Laboratory Control Sample, Blank Spike

MS-

Matrix Spike. Matrix Duplicate

DUP-MSD-

Matrix Spike Duplicate.

V. Comments

General:

The term "Detection Limit" used in the analytical data reports refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.



Bechtei Hanford Incorporated

June 22, 2000

Project Number: 36736

SDG: W03168

Page 2

Please refer to the attached cross-reference table for the standard preparation

methods used at Quanterra, St. Louis.

Chromium:

A Laboratory Control Sample, Lab Control Sample Duplicate, Method Blank, Matrix Spike and Matrix Spike Duplicate were analyzed with each preparation batch per

the protocol for this analysis.

The Matrix spike/Matrix spike duplicate recoverles are outside the control limits. The amount of Chromium found in the unspiked sample was greater than four times the spike amount added. The spike data was flagged with an "N" qualifier.

The LCS/LCSD recoveries were acceptable.

I certify that this Summary is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Reviewed and approved:

Marti Ward

St. Louis Project Manager

SAMPLE SUMMARY

F0F060241

WO #	sample#	CLIENT SAMPLE ID	DATE	TIME
DESWP	001	BOY2T7	05/04/00	09:00
DE8MA	002	BOY2T8	05/04/00	09:20
DESXO	003	BOY2T9	05/04/00	09:28
DE8X1	004	B0Y2V0	05/04/00	09:38
DE8X3	005	BOY2V1	05/04/00	09:45
		•		

NOTE (S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

METHODS SUMMARY

F0F060241

PARAMET	ER	ANALYTICAL METHOD	PREPARATION METHOD
Inducti	vely Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Referen	ces:		
SW846	"Test Methods for Evaluating Solid Wethods", Third Edition, November 19		

STL St. Louis

PSL20300 Page 1

SEVERN TRENT LABORATORIES, INC Run Date: 6/06/00 CLIENT ANALYSIS SUMMARY

STL St. Louis

Time: 16:05:16 User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC. QUOTE/SAR #: 36736

LAB ID: F-0F060241-001 PROJECT MANAGER: MARTI WARD

PROJECT #: 300-FF-1 WORK ORDER: DESWP

REPORT TO: Bechtel Hanford, Inc. RECEIVING DATE: 6/06/00

SAMPLING DATE: 5/04/00 ANALYTICAL DUE DATE: 6/20/00N P.O. NUMBER: MRC-SBB-A-19981 SITE: B00-026

AMOUNT REC"D: 60G REPORT DUE DATE: 6/21/00

STORAGE LOC: S12F PRIORITY: 14

LOT COMMENTS: SAMPLING TIME: 9:00 MATRIX: SOLID RECEIVING TIME: 10:10

SAMPLE ID: B0Y2T7

QC PACKAGE: Special Report - see checklist SDG# : W03168

SAMPLE COMMENTS:

Beginning Depth: .00 Ending Depth: .00

WRK REQUEST EXTRACTION ANALYSIS ***** ANALYSIS ***** <u>LOC</u> DATE EXP DATE EXP DATE

Inductively Coupled Plasma (6010B) 06 6/06/00 0/00/00 10/31/00

METALS, TOTAL - Soils

M6010_S CR

(A-46-QO-01) DESWP Protocol: A QC Program: STANDARD TEST SET

PSL20300 Page 1

SEVERN TRENT LABORATORIES, INC Run Date: 6/06/00 CLIENT ANALYSIS SUMMARY

STL St. Louis

Time: 16:05:16 User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC.

QUOTE/SAR #: 36736 LAB ID: F-0F060241-002

PROJECT MANAGER: MARTI WARD PROJECT #: 300-FF-1

WORK ORDER: DESWV

REPORT TO: Bechtel Hanford, Inc.

RECEIVING DATE: 6/06/00

P.O. NUMBER: MRC-SBB-A-19981

SAMPLING DATE: 5/04/00

SITE: B00-026

ANALYTICAL DUE DATE: 6/20/00N REPORT DUE DATE: 6/21/00

AMOUNT REC"D: 60G STORAGE LOC: S12F

PRIORITY: 14

LOT COMMENTS:

SAMPLING TIME: 9:20

MATRIX: SOLID

SAMPLE ID: B0Y2T8

RECEIVING TIME: 10:10

SDG# : W03168

QC PACKAGE: Special Report - see checklist

SAMPLE COMMENTS:

Beginning Depth: .00 Ending Depth:

.00

WRK REQUEST EXTRACTION ANALYSIS

***** ANALYSIS *****

<u>LOC</u>

DATE EXP DATE EXP DATE

Inductively Coupled Plasma (6010B) 06 6/06/00 0/00/00 10/31/00

METALS, TOTAL - Soils

M6010_S CR

(A-46-QO-01) DE8WV Protocol: A QC Program: STANDARD TEST SET

LOT #F0F060241

7

PSL20300 Page 1 SEVERN TRENT LABORATORIES, INC Run Date: 6/06/00

CLIENT ANALYSIS SUMMARY

STL St. Louis

Time: 16:05:16 User Id.: WILSONS

QUOTE/SAR #: 36736

LAB ID: F-0F060241-003

ANALYTICAL DUE DATE: 6/20/00N

SAMPLING TIME:

SDG# : W03168

6/06/00 0/00/00

RECEIVING DATE: 6/06/00

REPORT DUE DATE: 6/21/00

PRIORITY: 14

RECEIVING TIME: 10:10

SAMPLING DATE: 5/04/00

WORK ORDER: DE8X0

CLIENT: 127642 BECHTEL HANFORD, INC.

PROJECT MANAGER: MARTI WARD

PROJECT #: 300-FF-1

REPORT TO: Bechtel Hanford, Inc.

P.O. NUMBER: MRC-SBB-A-19981

SITE: B00-026

AMOUNT REC"D: 60G

STORAGE LOC: S12F

LOT COMMENTS:

MATRIX: SOLID

SAMPLE ID: BOY2T9

QC PACKAGE: Special Report - see checklist

SAMPLE COMMENTS:

Beginning Depth: .00 Ending Depth: .00

***** ANALYSIS *****

WRK <u>LOC</u>

06

DATE

EXP DATE

REQUEST EXTRACTION ANALYSIS

EXP DATE 10/31/00

9:28

Inductively Coupled Plasma (6010B)

METALS, TOTAL - Soils

M6010 S CR

(A-46-QO-01) DE8X0 Protocol: A QC Program: STANDARD TEST SET

PSL20300 Page 1

SEVERN TRENT LABORATORIES, INC Run Date: 6/06/00 CLIENT ANALYSIS SUMMARY

STL St. Louis

Time: 16:05:16 User Id.: WILSONS

QUOTE/SAR #: 36736

LAB ID: F-0F060241-003-D

RECEIVING DATE: 6/06/00 SAMPLING DATE: 5/04/00

REPORT DUE DATE: 6/21/00

PRIORITY: 14

RECEIVING TIME: 10:10

WORK ORDER: DESKO MSD

ANALYTICAL DUE DATE: 6/20/00N

SAMPLING TIME:

SDG# : W03168

CLIENT: 127642 BECHTEL HANFORD, INC.

PROJECT MANAGER: MARTI WARD

PROJECT #: 300-FF-1

REPORT TO: Bechtel Hanford, Inc.

P.O. NUMBER: MRC-SBB-A-19981

SITE: B00-026

AMOUNT REC"D: 60G

STORAGE LOC: S12F

LOT COMMENTS:

MATRIX: SOLID SAMPLE ID: B0Y2T9

QC PACKAGE: Special Report - see checklist

SAMPLE COMMENTS:

Beginning Depth: .00 Ending Depth: .00

WRK <u>LOC</u>

REQUEST EXTRACTION ANALYSIS DATE EXP DATE EXP DATE

10/31/00

***** ANALYSIS *****

06 6/06/00 0/00/00

9:28

Inductively Coupled Plasma (6010B)

METALS, TOTAL - Soils

M6010_S CR

(A-46-QO-01) DE8X0 Protocol: A QC Program: STANDARD TEST SET

LOT #F0F060241

9

P\$L20300 Page 1

SEVERN TRENT LABORATORIES, INC Run Date: 6/06/00

CLIENT ANALYSIS SUMMARY STL St. Louis

Time: 16:05:16

User Id.: WILSONS

QUOTE/SAR #: 36736

LAB ID: F-0F060241-003-S

RECEIVING DATE: 6/06/00

SAMPLING DATE: 5/04/00 ANALYTICAL DUE DATE: 6/20/00N

REPORT DUE DATE: 6/21/00

PRIORITY: 14 SAMPLING TIME: 9:28 RECEIVING TIME: 10:10

WORK ORDER: DE8X0 MS

CLIENT: 127642 BECHTEL HANFORD, INC.

PROJECT MANAGER: MARTI WARD

PROJECT #: 300-FF-1

REPORT TO: Bechtel Hanford, Inc.

P.O. NUMBER: MRC-SBB-A-19981

SITE: B00-026 AMOUNT REC"D: 60G

STORAGE LOC: S12F

LOT COMMENTS:

MATRIX: SOLID

SAMPLE ID: BOY2T9

QC PACKAGE: Special Report - see checklist SDG# : W03168

SAMPLE COMMENTS:

Beginning Depth: .00 Ending Depth: .00

WRK REQUEST EXTRACTION ANALYSIS ***** ANALYSIS ***** <u>LOC</u> DATE EXP DATE EXP DATE

Inductively Coupled Plasma (6010B) 06 6/06/00 0/00/00

10/31/00

METALS, TOTAL - Soils

M6010 S CR

(A-46-QO-01) DE8X0 Protocol: A QC Program: STANDARD TEST SET

LOT #F0F060241 10 PSL20300 Page 1 SEVERN TRENT LABORATORIES, INC Run Date: 6/06/00 CLIENT ANALYSIS SUMMARY

STL St. Louis

QUOTE/SAR #: 36736

Time: 16:05:16 User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC.

PROJECT MANAGER: MARTI WARD LAB ID: F-0F060241-004

PROJECT #: 300-FF-1 WORK ORDER: DESX1

REPORT TO: Bechtel Hanford, Inc. RECEIVING DATE: 6/06/00

SAMPLING DATE: 5/04/00 ANALYTICAL DUE DATE: 6/20/00N P.O. NUMBER: MRC-SBB-A-19981

SITE: B00-026 REPORT DUE DATE: 6/21/00 AMOUNT REC"D: 60G

STORAGE LOC: 512F PRIORITY: 14

LOT COMMENTS: SAMPLING TIME: 9:38 RECEIVING TIME: 10:10

MATRIX: SOLID SAMPLE ID: B0Y2V0

QC PACKAGE: Special Report - see checklist SDG# : W03168

SAMPLE COMMENTS:

Beginning Depth: .00 Ending Depth: .00

EXTRACTION WRK REQUEST ANALYSIS ***** ANALYSIS ***** <u>LOC</u> DATE EXP DATE EXP DATE

Inductively Coupled Plasma (6010B) 06 6/06/00 0/00/00 10/31/00

METALS, TOTAL - Soils

M6010_S CR

(A-46-QO-01) DE8X1 Protocol: A QC Program: STANDARD TEST SET

LOT #F0F060241 11 PSL20300 Page 1

SEVERN TRENT LABORATORIES, INC Run Date: 6/06/00 CLIENT ANALYSIS SUMMARY

STL St. Louis

Time: 16:05:16

User Id.: WILSONS

CLIENT: 127642 BECHTEL HANFORD, INC.

QUOTE/SAR #: 36736 LAB ID: F-0F060241-005

PROJECT MANAGER: MARTI WARD PROJECT #: 300-FF-1

WORK ORDER: DE8X3

REPORT TO: Bechtel Hanford, Inc.

P.O. NUMBER: MRC-SBB-A-19981

RECEIVING DATE: 6/06/00 SAMPLING DATE: 5/04/00

SITE: B00-026

ANALYTICAL DUE DATE: 6/20/00N

AMOUNT REC"D: 60G

REPORT DUE DATE: 6/21/00

STORAGE LOC: S12F

PRIORITY: 14

LOT COMMENTS:

SAMPLING TIME:

9:45

MATRIX: SOLID

RECEIVING TIME: 10:10

SAMPLE ID: B0Y2V1

QC PACKAGE: Special Report - see checklist

SDG# : W03168

SAMPLE COMMENTS:

Beginning Depth: .00 Ending Depth: .00

WRK ***** ANALYSIS ***** TOC

REQUEST EXTRACTION ANALYSIS DATE EXP DATE EXP DATE

Inductively Coupled Plasma (6010B)

06 6/06/00 0/00/00 10/31/00

METALS, TOTAL - Soils

M6010 S CR

(A-46-QO-01) DE8X3 Protocol: A QC Program: STANDARD TEST SET

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Bechtel Han	ford Inc.		HAIN OF CUST	ODY/S	SAMPLE	ANAL	YSIS	REQUES	T		B00	0-027-07	Page <u>i</u>	of <u>2</u>
Collector Fahlberg		Comps J Ad	any Contact Ber	Telepho 373-4				Project Coord TRENT, SJ	inator	Price C	ode	9L		rna round
Project Designation 105F & 105DR ISS Project - Other Solid			ing Location F					SAF No. B00-027 Air Quality			ality	21 Days		Days
Ice Chest No. ER	C.99.018	Field I	Legbeck No. 1381-3		COA R105F2280	c		Method of Shi Hand Delive						
Shipped To Quanterra Incorporated			Property No.					Bill of Lading	/Air Bill	No.	004	012714	613	
POSSIBLE SAMPLE HA	ZARDS/REMARKS		Preservation	None	Cool 4C									
	•		Type of Container	aG	aG	<u> </u>			1					
			No. of Container(s)	1	1					1				
Special Handling and/or	Storage		Volume	20mL	60ml.									
SDL	SAMPLE ANAL	Du	5.25	Activity Scar	7196 CR6: Hecavalent Chromium (1)									
WO3168	9	10E04	0206											
Sample No.	Matrix *	Sample Date	Sample Time	A										
BOY2T7 DCG/LC	Other Solid	5.4.00		x	K	/×2	<u>02.</u>	GLASS	4	//	<u>77</u>	Poful	<u> </u>	ļ
BOY2TE DOLLE	Other Solid	5.4.00	0920	K	X		ļ		—		<u> </u>	1		
BOYZT9 DCQLT	Other Solid	8.4.00	<u> </u>	×	X				<u> </u>					<u> </u>
BOYZVO DCQLh	Other Solid	5.4.00	0938	X	71	1	<u> </u>		 		ļ,_			ļ
BOYZVI DCQM2	Other Solid	5.4.00		<u></u>	<u> x </u>	4	<u> </u>		<u> </u>	\perp	<u></u>			
CHAIN OF POSSES		Sign/Print				IAL INSTI	RUCTIO	DNS			•	,		Matrix *
Religioushed By	Date/Time (20	ヘーク・ル	'~~ "	me/Time <i>[2</i> 5–4				Total	Chre	רעטואראל	n I	request	ed	S-Sull SE-Sulliment
Relinquished By	DOWNER 65-D	Charges By	Δ 0-	de Comme La	77 En//	6.50		bu cl	ent	4/2	100	for a	•	SO-S-Mi S -Shalge
Kaxin Boktin		Received By	150-512-64	o-00 *	<u>ज्</u> य						•			W = Water O-Oil A-Air
Relinquished By	Date/Time	Receives 13y		ncy i minc	İ			15 de	אן וי	AI.	\.	~ a		DS-Dran Solids DL-Dran Lloyds
Relinquished By	Date/Time	Received By	De	ne/Time						4	Unn (6600		T=Times WI=Wipc L=Limit
Relinquished By	Date/Time	Received By	Da	te/Time										V-Vegetation X-Other
Relinguished By	Date/Time	Received By	De	de/Time										
LABORATORY Receive SECTION	d By		, and	Ti	tle							D	ste/Time	<u> </u>
FINAL SAMPLE Dispose	i Method	·	<u>, , , , , , , , , , , , , , , , , , , </u>			Dispo	ned By	·				D	ate/Tune	
DISPOSITION														

ERC
Radiolog
ical Cor
ounting F
acility
Analysis
s Report

Eu-152 C+137 大二七四 8 X RCF Number RCF6959 Nuclida Sample II: Project ID: BOXBF6 Ey Analysia Activity (pCVg) 4.86+01 4.7年61 1JE+01 1.25-01 1.7E+02 SAF Number: 800-013 Error (pCI/g) B MDC (PCVg) 4.7E±01 に出るこ 1.82+01 E HI.I WW Shipple Date & Time Data Analyzad 12/30/99 9:08: 80× 65-81 12/29/99

4.7E±01 9.4E+01 3.3E+03 4.3E+01 · 00/ 4.7E+01 1.98+01 3.3E+03 001

U-238D

U-238 U-235 Th-232D En-155

> 4.75-61 1.0E+01

4.75+01

1.66+82

1.0E+01

1.6E+02

Am-241

Total GEA (pCVg)

5.625+00				•
Beta MDC (pCl/g)	125+00	‡	1.02+01	Gross Beta
138-01	6.05-01	ŧ	7.6E-01	Gross Alpha**
Alpha MDC (pCVg)	Error (pCl/g)	C	Activity (pCVg)	
		İ		

Designations

Minimum Desectable Concentration (ADC) value for that radionwellds. wed what GEA sectivity differing from the sum of the > MDC GEA values in the

for solls and nathral animples, the following applied

ustivity of Po-234m. In audivity of Po-233. Id Bi-214, short lived du

giner products of U-238. Equilibrium be

d 17-305, short lived do

petais, may have inapplicable results for the Th, U, transuration and daughter products. The fatulty power then he

isorholen skyround in the spectrum. The M TOOL BE SEEN TOOL

12/30/99

F11. 372-9447

Report Printed: Thursday, December 30, 1999

000036

puis	
Figure 1. Sample Check-in	List
Date/Time Received: 5-4-00 12-00 SDG#: 00	3168
Work Order Number: 3015040206 SAF#: BOD -	027
Shipping Container ID: ERC 99 018 Chain of Custody #: _	800-027-07
1. Outermost shipping container damaged?	Yes [] No []
2. Custody Seals on shipping container intact?	Yes [No []
3. Custody Seals dated and signed?	Yes [] No []
4. Chain-of-Custody record present?	Yes [] No []
5. Chain-of-Custody includes the following information: - Client name - Project name or number - Sample date/time for each sample - Container types, sizes and number of containers - Short description of sample, i.e., matrix - Analyses requested - Preservation used or "none" or N/A if not applicable - Date and time of relinquish and receipt - Signatures of those persons relinquishing and receiving 6. Sample numbers on chain of custody match those on sample containers? Collection date and date of laboratory receipt are within project specific holding time requirements? 8. Cooler temperature:	Yes [] No [] Yes [] No [] Yes [] No [] Yes [] No [] Yes [] No [] Yes [] No [] Yes [] No [] Yes [] No [] Yes [] No [] Yes [] No [] Yes [] No []
10. Samples have:	eis e sample labels
11. Samples are:in good conditionleaking broken have air t	bubbles
12. Were any anomaties identified in sample receipt? 13. Description of anomalies (include sample numbers):	Yes [] No []

Page 29 of 31

Qu

Date: 5-4-00

Ву

Sample Custodian/Laboratory: Powlar

Telephone/Fax/E:mailed to:



CLIENT	CODE to		RECEIVED		ACQ DATE						NET CPM B
	Y3V9DCPE3 XTPE3				5/8/2000 4:39:26 PM 5/5/2000 2:44:27 AM		30 600	3 57	0.005	60 631	0.94833333
Anl Date: Ppt mg:	: 5/9/00 : 3.7	Tot Sa,	Alq: 5.00E-01	, 1.00f±+01	Alp; (Upm/ -1. Bet; Alq): 1.3	.93E-02 (mC3/ -4.36E-78E+00 Sa): 4.01E-0	07 (pC	3/ -8.71E-01 g: 8.01E+01	+ 2.1E+01 + 2.2E+01	CAT	5.0E-01 Lab 6.2E-01 Lkg



000749

Lot No.: <u>FOFO6024,</u> W03168

Condition Upon Receipt Variance Report St. Louis Laboratory

-	No:	Seektel Hanford 36736	Date: Initia	ted b	
		: <u>(UNDAYNE 0040/27/461</u> Variance (Check all that apply):	S RFA	COC	Numbers: <u>860-027-07</u>
1.	0	Sample received broken/leaking.	8.		Sample ID on container does not match sample ID
2.		Sample received without proper preservative.			on paperwork. Explain:
		☐ Cooler temperature not within 4°C ±	•		
		Record temperature:		_	
		□ pH		_	All coolers on airbill not received with shipment.
		O other:		_	Sample volume insufficient for analysis
3.		Sample received in improper container.	11.		Other (explain below)
4.		Sample received without proper paperwork. E	xplain:		
5.		Paperwork received without sample.			
6.	0	No sample ID on sample container.			
7 .	Ø	Custody tape disturbed/broken/missing/not tam	per evident type (circl	e all	that apply).
	N	variances were noted during sample receipt.			
7					
_	C	ooler Temperature Upon Receipt in °C:			
`emj	eratu	poler Temperature Upon Receipt in °C: re Variance Does Not Affect the Following Ans	2°		
`emj	eratu		2°		
[em]	eratu		2°		
`emj	eratu		2°		
`emj	eratu		2°		
[em]	eratu		2°		
Temj Votes Corr	ective	re Variance Does Not Affect the Following Ans	2 alyses:		
Corr	eratu	Action:	Alyses:	ı	By:
lote:	eratu	re Variance Does Not Affect the Following Ans	2 alyses:	ı	
Corr	ective	Action:	Alyses:	ı	By:
Corr	eratu	Action: Client's Name:	Alyses:		By:
Corr	ective	Action: Client's Name: Client's Name: Sample(s) processed "as is". Sample(s) on hold until:	Informed verbally or		By: By: If released, notify:
Corr	ective	Action: Client's Name: Client's Name: Sample(s) processed "as is".	Informed verbally or		By:

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

METALS

Client Sample ID: B0Y2T7

TOTAL Metals

	: F0F060241		Received	: 06/06/00	Matrix:	SOLID
PARAMETER	RESULT	REPORTIN LIMIT	G UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch # Chromium	: 0166143 636	1.0	mg/kg	SW846 6010B	06/14-06/15/00	DESWP101

Dilution Factor: 1

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F0F060241

Date Sampled...: 05/04/00

Matrix....: SOLID

Date Received..: 06/06/00

SAMPLE SPIKE MEASURED

PERCNT

PREPARATION-

WORK

PARAMETER AMOUNT AMT AMOUNT

UNITS

RECVRY RPD METHOD

ANALYSIS DATE ORDER #

MS Lot-Sample #: F0F060241-003 Prep Batch #...: 0166143

Chromium

375 20.0 406 N mg/kg

154

SW846 6010B 06/14-06/15/00 DE8X0102 --

375

20.0 369 N,* mg/kg

0.0

200 SW846 6010B

06/14-06/15/00 DE8X0103

a Names Co. E. Margas and many transport of the control of the con

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Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

- N Spiked analyte recovery is outside stated control limits.
- * Relative percent difference (RPD) is outside stated control limits.

grant from secretarion as here.

Client Sample ID: B0Y2T8

TOTAL Metals

Lot-Sample #...: F0F060241-002

Date Sampled...: 05/04/00

Date Received..: 06/06/00

Matrix....: SOLID

REPORTING RESULT PARAMETER

<u>LIMIT UNITS</u>

METHOD

PREPARATION- WORK ANALYSIS DATE ORDER #

Prep Batch #...: 0166143

Chromium

Diese in der eite mellen wit werden in der eine

711

1.0

mg/kg

SW846 6010B

06/14-06/15/00 DR8WV101

Dilution Factor: 1

MDL..... 0.30

Client Sample ID: B0Y2T9

TOTAL Metals

Lot-Sample #...: F0F060241-003

RESULT

Date Sampled...: 05/04/00

Date Received..: 06/06/00

Matrix....: SOLID

REPORTING

LIMIT UNITS

Preparation-

PREPARATION- WORK
ANALYSIS DATE ORDER #

The control of the state and the state of th

Prep Batch #...: 0166143

Chromium 375

1.0 mg/kg

SW846 6010B

06/14-06/15/00 DESE0101

Dilution Factor: 1

MDL..... 0.30

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Client Sample ID: B0Y2V0

TOTAL Metals

Lot-Sample #...: F0F060241-004

Date Sampled...: 05/04/00

Date Received..: 06/06/00

Matrix....: SOLID

REPORTING PARAMETER RESULT

LIMIT UNITS

PREPARATION-

WORK ANALYSIS DATE ORDER #

Prep Batch #...: 0166143

Chromium 116 1.0 mg/kg SW846 6010B

MDL..... 0.30

06/14-06/15/00 DESX1101

Dilution Factor: 1

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BECHTEL HANFORD, INC.

Client Sample ID: B0Y2V1

TOTAL Metals

Lot-Sample #...: F0F060241-005

Date Sampled...: 05/04/00

Date Received..: 06/06/00

Matrix....: SOLID

A Discourse of the Section Section Section (Section Section Se

REPORTING

PREPARATION-WORK RESULT LIMIT UNITS ANALYSIS DATE ORDER #

Prep Batch #...: 0166143

Chromium 22.6 1.0 mg/kg SW846 6010B 06/14-06/15/00 DESEX3101

Dilution Factor: 1 MDL..... 0.30

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: F0F060241

Matrix..... SOLID

	SPIKE	MRASURED		PERCNT			PREPARATION- PREP	
PARAMETER	AMOUNT	AMOUNT	UNITS	RECVRY	RPD	METHOD	ANALYSIS DATE BATCH #	
Chromium	99.4	102	mg/kg	102		SW846 6010B	06/14-06/15/00 0166143	
	99.4	93.3	mg/kg	94	8.6	SW846 6010B	06/14-06/15/00 0166143	
		ŁŒ	lution Pac	tor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

	SDR # <u>B00-109</u> Revision #: 0
	Date Initiated: 06/21/00
SAMPLE DISPOSITION RECORD	
SAF: B00-027	
DU: NA	
Project ID: 105F/105DR	
Task ID: 1	,
Sampling Event: 105F & 105DR ISS Project	
aboratory: Severn Trent Inc, (Quanterra)	
Task Manager: Morton, MR	
Sampling Information:	
Number of Samples: 5	
D Numbers: B0Y2T8, B0Y2T7, B0Y2T9, B0Y2V1, and B0Y2V0 Matrix: other solid	
Collection Date: 5/04/00	
ssue Background:	<u> </u>
Class: Project Data Use 🔀 General Laboratory 🔲 Validation Direction	rection Sample Management Direction
Type: 1) Addition of analysis.	
Description: Total chromium by ICP was requested after samplaboratory.	les had been delivered to the
Disposition:	
Description: Laboratory was directed to add total chromium b	y ICP via telecom.
Justification: Total chromium content is required by the proje	oct.
Approval Signatures:	
S. J. Trent Bushen for SJ Trent	6/21/00
Project Coordinator (Print/Sign Name)	Date
At D. Mantau	
M.R. Morton Task Manager (Print/Sign Name)	Date